

TABLE A-9

## Unit response rates, by industry and company size: 2019

(Number and percent)

| Industry and company size   | NAICS code          | Active reporting units <sup>a</sup> | Reporting units that met the response criteria <sup>b</sup> |         | Reporting units that met the response criteria and reported domestic R&D paid for by the company and others and performed by the company of \$1 million or more |         |
|---|---------------------|-------------------------------------|---|---------|---|---------|
|   |                     |                                     | Number  | Percent | Number  | Percent |
| All industries  | 21–23, 31–33, 42–81 | 42,500                              | 29,500  | 69      | 7,400   | 17      |
| Manufacturing industries  | 31–33               | 17,500                              | 12,500  | 71      | 4,100   | 23      |
| Food  | 311                 | 1,100                               | 750   | 68      | 200   | 18      |
| Beverage and tobacco products   | 312                 | 350                                 | 250   | 71      | 30  | 9       |
| Textile, apparel, and leather products  | 313–16              | 500                                 | 350   | 70      | 50  | 10      |
| Wood products   | 321                 | 600                                 | 450   | 75      | 20  | 3       |
| Paper   | 322                 | 350                                 | 250   | 71      | 40  | 11      |
| Printing and related support activities   | 323                 | 1,000                               | 700   | 70      | 30  | 3       |
| Petroleum and coal products   | 324                 | 150                                 | 90  | 60      | 30  | 20      |
| Chemicals   | 325                 | 2,100                               | 1,500   | 71      | 950   | 45      |
| Basic chemicals   | 3251                | 300                                 | 200   | 67      | 100   | 33      |
| Resin, synthetic rubber, and artificial synthetic fibers and filaments                      | 3252                | 200                                 | 150   | 75      | 50  | 25      |
| Pesticide, fertilizer, and other agricultural chemicals                                     | 3253                | 100                                 | 70  | 70      | 30  | 30      |
| Pharmaceuticals and medicines   | 3254                | 950                                 | 750   | 79      | 650   | 68      |
| Soap, cleaning compound, and toilet preparation   | 3256                | 200                                 | 150   | 75      | 60  | 30      |
| Paint, coating, adhesive, and other chemicals   | 3255, 3259          | 350                                 | 250   | 71      | 80  | 23      |
| Plastics and rubber products  | 326                 | 1,000                               | 750   | 75      | 200   | 20      |
| Nonmetallic mineral products  | 327                 | 500                                 | 350   | 70      | 50  | 10      |
| Primary metals  | 331                 | 400                                 | 300   | 75      | 70  | 18      |
| Fabricated metal products   | 332                 | 2,200                               | 1,600   | 73      | 300   | 14      |
| Machinery   | 333                 | 2,000                               | 1,500   | 75      | 550   | 28      |
| Agricultural implement  | 33311               | 150                                 | 100   | 67      | 40  | 27      |
| Semiconductor machinery   | 333242              | 70                                  | 60  | 86      | 30  | 43      |
| Engine, turbine, and power transmission equipment   | 3336                | 150                                 | 90  | 60      | 40  | 27      |
| Other machinery   | other 333           | 1,700                               | 1,200   | 71      | 400   | 24      |
| Computer and electronic products  | 334                 | 1,700                               | 1,100   | 65      | 650   | 38      |
| Communications equipment  | 3342                | 200                                 | 150   | 75      | 90  | 45      |
| Semiconductor and other electronic components   | 3344                | 500                                 | 350   | 70      | 200   | 40      |
| Navigational, measuring, electromedical, and control instruments                            | 3345                | 750                                 | 550   | 73      | 300   | 40      |
| Electromedical, electrotherapeutic, and irradiation apparatus                               | 334510, 334517      | 200                                 | 100   | 50      | 70  | 35      |
| Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments | 334511              | 150                                 | 90  | 60      | 50  | 33      |
| Other measuring and controlling devices   | other 3345          | 450                                 | 300   | 67      | 150   | 33      |
| Other computer and electronic products  | other 334           | 200                                 | 100   | 50      | 70  | 35      |
| Electrical equipment, appliances, and components  | 335                 | 600                                 | 450   | 75      | 200   | 33      |
| Transportation equipment  | 336                 | 1,000                               | 750   | 75      | 350   | 35      |
| Motor vehicles, bodies, trailers, and parts   | 3361–63             | 600                                 | 400   | 67      | 200   | 33      |
| Aerospace products and parts  | 3364                | 250                                 | 200   | 80      | 100   | 40      |
| Aircraft, aircraft engine, and aircraft parts   | 336411–13           | 200                                 | 150   | 75      | 90  | 45      |

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|--|--|-------------------------------------|---|---------|---|---------------|
|  |  |                                     | Number  | Percent | Number  | Percent       |
| Guided missile, space vehicle, and related parts   | 336414–15, 336419                                      | 40                                  | 30  | 75      | 20  | 50            |
| Military armored vehicle, tank, and tank component                                       | 336992   | 20                                  | 20  | 100     | <i>N</i> < 15   | <i>N</i> < 15 |
| Other transportation equipment   | other 336  | 200                                 | 150   | 75      | 50  | 25            |
| Furniture and related products   | 337  | 850                                 | 600   | 71      | 50  | 6             |
| Miscellaneous manufacturing  | 339  | 1,300                               | 900   | 69      | 400   | 31            |
| Medical equipment and supplies   | 3391   | 550                                 | 400   | 73      | 250   | 45            |
| Other miscellaneous  | 3399   | 700                                 | 500   | 71      | 150   | 21            |
| Nonmanufacturing industries  | 21–23, 42–81   | 25,000                              | 17,000  | 68      | 3,300   | 13            |
| Mining, extraction, and support activities   | 21   | 600                                 | 400   | 67      | 40  | 7             |
| Utilities  | 22   | 150                                 | 100   | 67      | 20  | 13            |
| Wholesale trade  | 42   | 5,200                               | 3,600   | 69      | 80  | 2             |
| Electronic shopping and electronic auctions  | 454111–12  | 300                                 | 200   | 67      | 20  | 7             |
| Transportation and warehousing   | 48–49  | 550                                 | 350   | 64      | 30  | 5             |
| Information  | 51   | 3,100                               | 2,100   | 68      | 1,100   | 35            |
| Publishing   | 511  | 1,100                               | 650   | 59      | 300   | 27            |
| Newspaper, periodical, book, and directory publishers                                    | 5111   | 400                                 | 250   | 63      | <i>N</i> < 15   | <i>N</i> < 15 |
| Software publishers  | 5112   | 700                                 | 450   | 64      | 250   | 36            |
| Telecommunications   | 517  | 450                                 | 300   | 67      | 60  | 13            |
| Data processing, hosting, and related services   | 518  | 1,100                               | 850   | 77      | 600   | 55            |
| Other information  | other 51   | 450                                 | 300   | 67      | 90  | 20            |
| Finance and insurance  | 52   | 800                                 | 600   | 75      | 100   | 13            |
| Real estate and rental and leasing   | 53   | 400                                 | 250   | 63      | <i>N</i> < 15   | <i>N</i> < 15 |
| Lessors of nonfinancial intangible assets (except copyrighted works)                     | 533  | 80                                  | 50  | 63      | <i>N</i> < 15   | <i>N</i> < 15 |
| Other real estate and rental and leasing   | other 53   | 350                                 | 200   | 57      | <i>N</i> < 15   | <i>N</i> < 15 |
| Professional, scientific, and technical services   | 54   | 8,600                               | 6,000   | 70      | 1,600   | 19            |
| Architectural, engineering, and related services   | 5413   | 2,600                               | 2,000   | 77      | 300   | 12            |
| Computer systems design and related services   | 5415   | 2,700                               | 1,700   | 63      | 450   | 17            |
| Scientific research and development services   | 5417   | 1,900                               | 1,200   | 63      | 650   | 34            |
| Biotechnology research and development   | 541711   | 450                                 | 250   | 56      | 150   | 33            |
| Physical, engineering, and life sciences (except biotechnology) research and development | 541712   | 1,300                               | 850   | 65      | 450   | 35            |
| Social sciences and humanities research and development                                  | 541720   | 150                                 | 100   | 67      | 20  | 13            |
| Other professional, scientific, and technical services                                   | other 54   | 1,500                               | 1,000   | 67      | 250   | 17            |
| Health care services   | 621–23   | 1,300                               | 900   | 69      | 70  | 5             |
| Other nonmanufacturing   | 23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81 | 3,800                               | 2,600   | 68      | 250   | 7             |
| All companies (number of domestic employees)   | –  | 42,500                              | 29,500  | 69      | 7,400   | 17            |
| Small companies  |  |                                     |   |         |   |               |
| 10–19 <sup>c</sup>   | –  | 7,800                               | 5,400   | 69      | 500   | 6             |

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|---------------------------|------------|-------------------------------------|---|---------|---|---------|
|                           |            |                                     | Number  | Percent | Number  | Percent |
| 20–49                     | –          | 10,500                              | 7,500   | 71      | 1,200   | 11      |
| Medium companies          |            |                                     |   |         |   |         |
| 50–99                     | –          | 6,800                               | 4,900   | 72      | 1,100   | 16      |
| 100–249                   | –          | 7,400                               | 5,100   | 69      | 1,600   | 22      |
| Large companies           |            |                                     |   |         |   |         |
| 250–499                   | –          | 3,700                               | 2,500   | 68      | 1,000   | 27      |
| 500–999                   | –          | 2,400                               | 1,600   | 67      | 700   | 29      |
| 1,000–4,999               | –          | 2,600                               | 1,800   | 69      | 900   | 35      |
| 5,000–9,999               | –          | 500                                 | 400   | 80      | 200   | 40      |
| 10,000–24,999             | –          | 400                                 | 300   | 75      | 150   | 38      |
| 25,000 or more            | –          | 250                                 | 200   | 80      | 100   | 40      |

NAICS = 2012 North American Industry Classification System.

<sup>a</sup> Active reporting units are defined as reporting units of active companies that are in the scope of the survey (for-profit companies with locations in the United States, 10 or more employees, business activities in the survey year, and primary business activities in the NAICS codes listed above) after all of the data have been processed. Because of special handling requests made by company respondents, some sampled companies were mailed more than one form. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

<sup>b</sup> Reporting units were considered to have fulfilled the response criteria if they reported that they performed or funded R&D. If not, a reporting unit fulfilled the response criteria if it reported a value for worldwide sales or domestic sales, or if it reported a positive value for paid worldwide employees or paid domestic employees.

<sup>c</sup> The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.

**Note(s):**

Beginning in survey year 2019, these counts and percentages reflect a change in rounding methodology. Detail may not add to total because of rounding.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.